

# ABSTRACT OF THE DISCLOSURE

With a two-unit area placement planning device, the distance between left and right galvano units (unit interval value) A is optimized so that the number of beam scanning and the number of moving the stage are minimized. 5 With an area placement planning device, the area position is optimized so that the number of areas is minimized. With a stage/galvano path planning device, the distance of moving the stage and the distance of scanning by the 10 galvano scanner are shortened by solving a traveling salesman problem. Thus, the working time with a laser drilling machine is shortened.